

In Re Patent Application of:
AHMED
Serial No. 10/606,080
Filing Date: June 25, 2003

REMARKS

The Examiner is thanked for the thorough examination of the present application and for properly allowing Claims 21-48, and for withdrawing the previous rejections.

Independent Claim 1 has been amended to more clearly define over the newly cited prior art by including recitations of independent apparatus Claim 28, already indicated as allowable by the Examiner. Since independent Claim 1 is being amended to be a method counterpart of independent Claim 28, it is submitted that no new issues are being raised.

Dependent Claims 9, and 49-53 are being canceled for consistency and to advance prosecution.

The patentability of Claims 1-4, and 10-19 is explained in greater detail below.

I. Amended Independent Claim 1

Amended independent Claim 1 is directed to a method for electromagnetic processing of an input wave. The method includes receiving, at an amplifying device having at least two amplifying segments, a modified signal derived from two or more signals that represent said input wave when combined. Claim 1 has also been amended to recite regulating, using a control circuit coupled to said amplifying device, said modified signal across one amplifying segment using a digital signal containing a characteristic of one of said two or more signals, and regulating said modified signal across another of said amplifying segments using another digital signal

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containing a characteristic of another of said two or more signals.

In other words independent Claim 1 has been amended to mirror allowed independent Claim 28. Accordingly, no new issues are raised and amended independent Claim 1 is patentable for the same reasons as recognized by the Examiner in allowing independent Claim 28.

II. Claims 1-4, and 10-19 Are Patentable

Bengtsson was cited as disclosing a method for electromagnetic processing of an input wave including received a modified signal derived from two or more signals that represent the input wave when combined. Applicants submit that Bengtsson et al. and Nielsen fail to teach or suggest all of the recited features of the claimed invention as recited in amended independent Claim 1. Bengtsson et al. and Nielsen fail to teach or suggest receiving, at an amplifying device having at least two amplifying segments, a modified signal derived from two or more signals that represent the input wave when combined; and regulating, using a control circuit coupled to said amplifying device, the modified signal across one amplifying segment using a digital signal containing a characteristic of one of said two or more signals, and regulating the modified signal across another of the amplifying segments using another digital signal containing a characteristic of another of the two or more signals.

Accordingly, it is submitted that amended independent Claim 1 is patentable. Its dependent claims, which recite yet further distinguishing features of the

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invention, are also patentable and require no further discussion herein.

III. CONCLUSIONS

In view of the amendments to the claims and the arguments provided herein, it is submitted that all of the claims are patentable. Accordingly, a Notice of Allowance is respectfully requested in due course. Should any minor informalities need to be addressed, the Examiner is encouraged to contact the undersigned attorney at the telephone number listed below.

Respectfully submitted,



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